

RoHS Compliant

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
		Replace 027-49	4/25/2019	

Electric Characters

- Voltage rating :-
- Temperature rating :75 °C
- Spark test : AC 500V / 0.15 sec MIN
- Dielectric strength : AC 750V/1sec MIN
- Insulation resistance SR-PVC: DC-500V 10MΩ/KM MIN. at 20°C
PE: DC-500V 100MΩ/KM MIN. at 20°C
- Conductor resistance : 28AWG-232Ω/KM MAX. at 20°C
- Conductor resistance unbalance : 5%
- Attenuation:

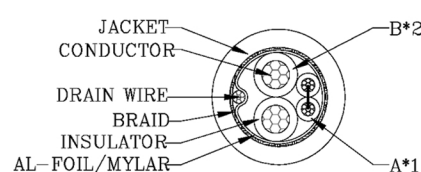
Frequency(MHz)	0.512	0.772	1.00	4.00	8.00	12.0	24.0	48.0	96.0	200.0	400.0
Attenuation(MAX)db/cable	0.130	0.150	0.20	0.390	0.570	0.760	0.950	1.350	1.90	3.20	5.80

- Impedance : 30Ω±30% @ TDR (Common mode)
90Ω±15% @ TDR (differential)
- Propagation Delay : 5.2ns/M MAX
- Propagation Delay skew: 100PS MAX

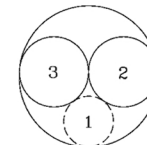
Construction Item		Construction ItemA		Construction ItemB	
Conductors	Structure AWG	AWG	28# (7/36)	28# (7/36)	28# (7/36)
	Material	--	Tinned Copper	Tinned Copper	Tinned Copper
	O.D.	mm	0.37 Ref	0.37 Ref	0.37 Ref
Insulation	Material	--	HD-PE	SR-PVC	SR-PVC
	Diameter	mm	0.80±0.05	0.82±0.05	0.82±0.05
	Average Thickness	mm	0.215 Ref	0.225 Ref	0.225 Ref
	Color	--	AS Color Code	AS Color Code	AS Color Code
Twist	Direction	--	Left (Z)	--	--
	Diameter	mm	1.60	--	--
Layer	Direction	--	Left (Z)	--	--
	Pitch	mm	58 Ref	--	--
	Diameter	mm	2.22 Ref	--	--
Shielding 1	Material	--	AL-foil/mylar	--	--
	Conductive Side	--	Outside	--	--
	Overlap Rate	%	25	--	--
Drain wire	Structure AWG	AWG	28# (7/36)	28# (7/36)	28# (7/36)
	Material	--	Tinned Copper	Tinned Copper	Tinned Copper
Shielding 2	Shield	--	Braid	--	--
	Material	--	Tinned Copper	--	--
	Coverage Rate	%	65 MIN	--	--
	Material	--	PVC	--	--
Jacket	Diameter	mm	4.5 ± 0.15	--	--
	Average Thickness	mm	0.90 Ref	--	--
	Extrusion	--	Solid	--	--
	Externals	--	Plane	--	--
	Color	--	PC3T(PC171)	--	--
	Color	--	BLACK	--	--
Inking	Inking	EWZC	USB SHIELDED < 28AWG/1PR + 28AWG/2C > (UL) TYPE CM 75°C E129760 SPACE SHUTTLE-Z CSA LL80671 AWM II A/B 80°C 30V FT4 USB Revision 2.0 .PPEC		
		EWCC	USB SHIELDED < 28AWG/1PR + 28AWG/2C > (UL) TYPE CM 75°C E129760 SPACE SHUTTLE-C CSA LL80671 AWM II A/B 80°C 30V FT4 USB Revision 2.0 .PPEC		

Physical Characters

- Flame test of cable:
 - UL Fire tesing of CM FT4
- Tensile strength test (before aging):
 - Sheath: > 1.12kg/mm2
 - Insulation : > 2.11kg/mm2 (SR)
 - Insulation : > 1.05kg/mm2 (PE)
- Tensile strength test (after aging):
 - Sheath : > 85%
 - Insulation : > 70% (SR)
 - Insulation : > 70%(PE)
- Elongation(before aging):
 - Sheath: > 200%
 - Insulation : > 100% (SR)
 - Insulation: > 100% (PE)
- Elongation(after aging):
 - Sheath: > 60%
 - Insulation : > 70% (SR)
 - Insulation: > 65% (PE)
- Requirements for green environment protection :EN1122 Cd<5PPM EPA3050B Pb<50PPM



- COLOR CODE
- GREEN*WHITE
 - BLACK (P570)
 - RED (P572)



BY	DATE	
DRAWN		
CHK'D		PART NO
APPRV		
MATERIAL		MCC-USB-8-250
FINISH		
	UNITS	SHEET
	SCALE NONE	
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